Amendments to the Claims

This listing of claims will replace all prior versions, and listings of claims in the application.

- 1. (Currently amended) A method of producing a sterile formulation comprising:
 - (a) mixing
 - (i) a cationic surfactant;
- (ii) a polyoxyethylene (POE) and polyoxypropylene (POP) block copolymer; and
 - (iii) a polynucleotide;

at a temperature below the cloud point of said block copolymer to form a mixture; and

- (b) cold filtering the mixture to produce a sterile formulation; wherein said mixing step does not require vortexing.
 - 2. (Currently amended) The method of claim 1, further comprising:
- (c) raising the temperature of the mixture above the cloud point of said block copolymer prior to step (b) cold filtering the mixture.
 - 3. (Currently amended) The method of claim 1, further comprising:

- (c) raising the temperature of the mixture above the cloud point of said block copolymer after step (b) cold filtering the mixture.
 - 4. (Currently amended) The method of claim 1, further comprising:
- (c) raising the temperature of the mixture above the cloud point of said block copolymer prior to step (b) cold filtering the mixture;
- (d) lowering the temperature to below the cloud point of said block copolymer; and
- (e) repeating steps (c) and (d) the sequence of raising and lowering the temperature of said mixture about 1 to about 50 times prior to step (b) said cold filtering the mixture.
 - 5. (Currently amended) The method of claim 1, further comprising:
- (c) raising the temperature of the mixture above the cloud point of said block copolymer after step (b) cold filtering the mixture;
- (d) lowering the temperature to below the cloud point of said block copolymer; and
- (e) repeating steps (e) and (d) the sequence of raising and lowering the temperature of said mixture about 1 to about 50 times.
- 6. (Previously presented) The method of claim 1, further comprising aliquoting said formulation into a suitable container.

7. (Previously presented) The method of claim 1, wherein said block copolymer is of the general formula:

 $HO(C_2H_4O)_x(C_3H_6O)_y(C_2H_4O)_xH$; wherein (y) represents a number such that the molecular weight of the hydrophobic POP portion (C_3H_6O) is up to approximately 20,000 daltons and wherein (x) represents a number such that the percentage of the hydrophilic POE portion (C_2H_4O) is between approximately 1% and 50% by weight.

- 8. (Previously presented) The method of claim 7, wherein said block copolymer is the poloxamer CRL-1005.
- 9. (Previously presented) The method of claim 1, wherein said block copolymer is of the general formula: $HO(C_3H_6O)_y(C_2H_4O)_x(C_3H_6O)_yH$ wherein (y) represents a number such that the molecular weight of the hydrophobic POP portion (C_3H_6O) is up to approximately 20,000 daltons and wherein (x) represents a number such that the percentage of hydrophilic POE portion (C_2H_4O) is between approximately 1% and 50% by weight.
- 10. (Previously presented) The method of claim 1, wherein the cationic surfactant is selected from the group consisting of benzalkonium chloride, benethonium chloride, cetrimide, cetylpyridinium chloride, acetyl triethylammonium chloride, Bn-DHxRIE, DHxRIE-OAc, DHxRIE-OBz and Pr-DOctRIE-OAc.

- 11. (Currently amended) The method of claim 1, wherein step (a) said mixing is performed at a temperature of about -2°C to about 8°C.
- 12. (Currently amended) The method of claim 2, wherein said step (c) raising the temperature of the mixture above the cloud point of said block copolymer is performed at a temperature of about 8°C to about 35°C.
- 13. (Currently amended) The method of claim 3, wherein said step (c) raising the temperature of the mixture above the cloud point of said block copolymer is performed at a temperature of about 8°C to about 35°C.
- 14. (Currently amended) The method of claim 4, wherein said step (e) raising the temperature of the mixture above the cloud point of said block copolymer is performed at a temperature of about 8°C to about 35°C.
- 15. (Currently amended) The method of claim 5, wherein said step (c) raising the temperature of the mixture above the cloud point of said block copolymer is performed at a temperature of about 8°C to about 35°C.
- 16. (Currently amended) The method of claim 4, wherein said step (d)

 lowering the temperature of the mixture below the cloud point of said block copolymer is

 performed at a temperature of about -2°C to about 8°C.

- 17. (Currently amended) The method of claim 5, wherein said step (d) lowering the temperature of the mixture below the cloud point of said block copolymer is performed at a temperature of about -2°C to about 8°C.
- 18. (Original) The method of claim 1, wherein said cold filtering is performed at a temperature of about -2°C to about 8°C.
- 19. (Previously presented) The method of claim 1, wherein said cold filtering is performed using a filter with a pore size of about 0.01 microns to about 2 microns.
- 20. (Previously presented) The method of claim 1, wherein the final concentration of said cationic surfactant present in said formulation is from about 0.01mM to about 5mM.
- 21. (Previously presented) The method of claim 1, wherein the final concentration of said block copolymer present in said formulation is from about 1 mg/mL to about 50 mg/mL.
- 22. (Previously presented) The method of claim 1, wherein the final concentration of said polynucleotide present in said formulation is from about 1 ng/mL to about 10 mg/mL.

- 23. (Original) A cationic lipid selected from the group consisting of: Bn-DHxRIE, DHxRIE-OAc, DHxRIE-OBz and Pr-DOctRIE-OAc.
- 24. (Original) The cationic lipid of claim 23, wherein said lipid is Bn-DHxRIE.
- 25. (Original) The cationic lipid of claim 23, wherein said lipid is DHxRIE-OAc.
- 26. (Original) The cationic lipid of claim 23, wherein said lipid is DHxRIE-OBz.
- 27. (Original) The cationic lipid of claim 23, wherein said lipid is Pr-DOctRIE-OAc.